

REMOTE OPERATION SOFTWARE OPTION FOR DIGITAL RECORDER

DX-PC For View

USER'S MANUAL

- For Windows XP, For Windows Vista or For Windows 7

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User's Manual

Chapter 1 – Overview

1.1 In This Manual

This manual describes installation and operation of DX-PC For View (Remote Operation Software) software, which is designed to be used with remote digital video recorders (DVRs).

1.2 DX-PC For View Features

DX-PC For View program is an integrated software program that controls system management, video monitoring, video recording and image playback of multiple remote sites. DX-PC For View offers the following features:

- Checks and reports status of remote DVRs
- Notification of events detected at remote sites
- Remote monitoring of live camera images
- Panic recording of monitored images
- Time-lapse and event search of recorded images
- Remote software upgrades and system programming
- View system and event log information of remote DVRs
- Remote monitoring of multiple remote sites using maps
- Connect up to 64 remote sites (up to 16 remote sites for remote search) at a time

NOTE: This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (*http://www.openssl.org/*).

NOTE: The software included in this product contains some Open Sources. You may obtain the complete corresponding source code from us. See the Open Source Guide on the software CD (*OpenSourceGuide\OpenSourceGuide.pdf*) or as a printed document included along with the User's Manual.

1.3 Product Information

Package Components

- User's Manual (this document)
- Installation CD

System Requirements

- Operating System: Microsoft[®] Windows[®] XP x86 (32 Bit) (Service Pack 3), Microsoft[®] Windows[®] Vista x86 (32 Bit) (Service Pack 1) or Microsoft[®] Windows[®] 7 x86 (32 Bit)
- CPU: Intel Pentium IV (Celeron) 2.4GHz or faster
- RAM: 512MB or higher
- VGA: AGP, Video RAM 8MB or higher (1024x768, 24bpp or higher)

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Chapter 2 – Installation

CAUTION: If an older version of DX-PC For View software is installed in your computer, you should uninstall the older version first.

NOTE: In the Windows Start menu, go to Control Panel. Double click the *Power Options* to open the Management Properties dialog box. Under the *Power Schemes* tab, set both *Turn off monitor* and *Turn off hard disks* to *Never*.

- 1. Insert the installation CD.
- 2. Run the Setup.exe file.

NOTE: Run the file as the administrator user, otherwise the installation will fail. If you have logged on as other user, you will be asked to enter the administrator user name and password when running the file.

NOTE: The User Account Control window might appear when using Microsoft Windows Vista or later operating system. Click Allow and install DX-PC For View software following the instructions.

3. The .NET Framework and the Visual C++ Runtime Libraries are installed automatically.

Microsoft .NET Framework 2.0	Microsoft Visual C++ 2005 Redistributable
17	1
Cancel	Cancel

NOTE: Installing the .NET Framework and the Visual C++ Runtime Libraries is required for DX-PC For View to operate properly. This installation step will be skipped if they are already installed on your computer.

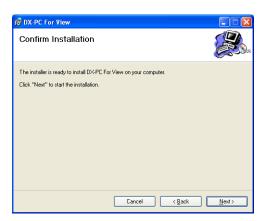
4. Designate the folder path to install DX-PC For View and select the user(s) who can use DX-PC For View. Then click Next.

🕼 DX-PC For View	
Select Installation Folder	
The installer will install DX-PC For View to the following folder	
To intall in this folder, click "Next". To install to a different folder, enter it be	low or click "Browse".
Eolder:	
C:\DX-PC For View	Browse
	Disk Cost
Install DX-PC For View for yourself, or for anyone who uses this computer:	
◯ Just <u>m</u> e	
Cancel < Back	<u>N</u> ext >

5. When the following dialog box appears, click Next.



6. Click Next.



7. Select whether or not to run DX-PC For View automatically when logging onto Windows, and then click Next.

🛃 DX-PC For View	
Installing DX-PC For View	
Automatically run DX-PC For View when I log on to Windows	
Cancel < <u>B</u> ack	< <u>N</u> ext>

 Set the language option by selecting either Select language when starting DX-PC For View or Always start DX-PC For View using the language below. If you select Always start DX-PC For View using the language below, select the desired startup language from the list of available languages and then click OK.



NOTE: To properly display the selected language, your PC's operating system should be set to support the selected language.

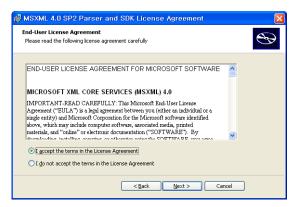
9. When the following dialog box appears after finishing the DX-PC For View installation, select Install MSXML application and click Finish. Installing the MSXML is required for DX-PC For View to initiate.

DX-PC For View	
Installing DX-PC For View	
Click Finish to exit Setup.	
	Finish

10. Click Next.



11. Select I accept the terms in the License Agreement, and click Next.



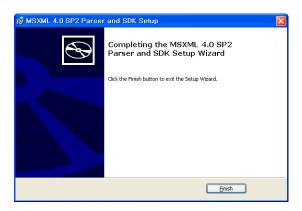
12. Enter User Name and Organization, and click Next.

🛃 MSXML 4.0 SP2 Parser and SDK Setup	
Customer Information Please enter your customer information	${\mathfrak G}$
User Name: Organization:	
< Back Next > Cancel	

13. Select Install Now.



14. Click Finish to complete the MSXML installation.

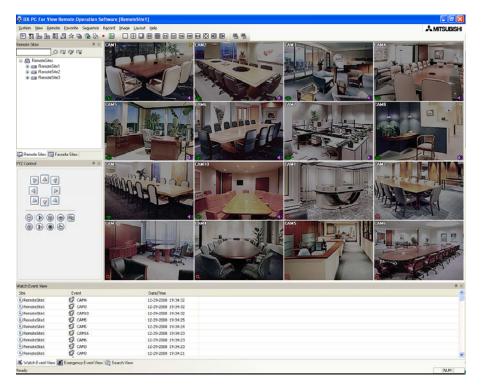


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Chapter 3 – Configuration

After installing the DX-PC For View software, you will find the DX-PC For View shortcut icon 😪 on the desktop. Run the DX-PC For View program by double clicking the icon. The DX-PC For View program consists of the screen, 12 docking panels, menu and toolbar.

NOTE: Some panels will not be displayed on the screen in the default frame layout. To display those panels, open the *View* menu at the top of the screen and select each panel from the menu.



3.1 Screen



The Screen displays images from selected cameras in the live monitoring or playback modes. DX-PC For View provides various multi-screen layouts; single-screen, quad, 1+7, 3x3, 4x4, 5x5, 1+32, 6x6, 7x7, 8x8 and full-screen. NOTE: There might be a problem with screen display or screen update due to low image transmission speed when using Microsoft Windows Vista or later operating system. In this situation, it is recommended that you disable the Auto Tuning capability of your computer.

Run the *Command Prompt* with elevated administrator permissions (Go to the Start Menu \rightarrow Accessories \rightarrow Command Prompt \rightarrow Click the right mouse button and select the *Run as administrator* option). Then enter "netsh int tcp set global autotuninglevel=disable" and click the OK button. Restart your computer to apply the changes.

If you want to enable the Auto Tuning capability again, enter "netsh int tcp set global autotuninglevel= normal" after running the Command Prompt with elevated administrator permissions. Restart your computer to apply the changes.

3.2 Panel

DX-PC For View has many powerful tools that can be used to streamline your work. Most of the tools are located on 12 docking panels that can be placed on the screen where they are most convenient. You can keep your screen free of clutter by displaying only the panels you use most frequently.

Clicking the \square icon at the upper right corner of a panel enables the auto-hide feature. Tabs for auto-hidden panels are displayed on the edge of the screen. Scrolling over an auto-hidden panel tab will cause the panel to "fly" out. You can cause the panel to lock back into its original display position by clicking the \square icon. Clicking the \times icon hides the panel without a tab. Hidden panels can be displayed by selecting them from the drop-down menus.

Panels can be resized, moved and combined with other panels creating a workspace that fits your needs. To resize a panel, scroll the cursor over the edge of the panel until the cursor changes to \leftrightarrow or 1. Then click the left mouse button and drag the panel border to enlarge or reduce its size.

To move a panel to a different position on the screen, scroll the cursor over the title bar of a panel that has not been auto-hidden until it changes to \bigoplus . Once you click and drag, position arrows will display on the screen.

The four position arrows along the outer edges allow you to place the panel along the given edge independent of the other panels. When you drag the panel over a position arrow, a transparent blue box will display showing the new panel position. If you are satisfied with the position, release the left mouse button and the panel will move to its new position.

You can also move a panel so that it is associated with another panel. To do this, drag the panel over the panel you want it associated with, and the icon with four position arrows will center over that panel. Scrolling the cursor over the icon arrows will cause a transparent blue box to display where the panel will be located. If you are satisfied with the position, release the left mouse button and the panel moves to its new position.



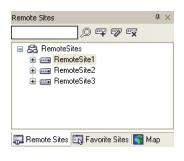
It is possible to combine panels so that they take up less space on the screen. Combined panels have a row of tabs across the bottom. Clicking a tab brings that panel to the foreground.

To combine panels, move the cursor to the title bar of the panel you want to move. Click and drag the panel onto the panel you want to combine it with. If the panels can be combined, the four-position arrow icon will have a tab symbol in the center. Drag the cursor over the tab symbol , and a new tab appears on the panel. Release the mouse button and the panels will now be combined.



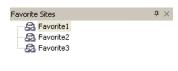
The layout possibilities are virtually unlimited. With a little experimentation you will be able to lay out the screen so that it best meets your workflow.

Remote Sites Panel



The Remote Sites Panel displays a list of remote sites registered during DX-PC For View System setup and a list of installed cameras at the remote sites. Entering the site name in the query box and clicking the \square icon allows you to find the remote site easily in the Remote Sites list. Clicking the remote site, c removes the selected remote site from the list, and clicking the window icon allows you to edit the site information of the selected remote site from the list. To connect to a remote site, select the site or camera you want to connect to from the list and then drag and drop it in the desired position on the screen or the Status View panel. The screen displays images from selected cameras, and the Status View panel displays the system status information of the connected remote site. Connecting to the Status View panel can also be done by selecting Connect Status View from the popup menu displayed by clicking the right mouse button after selecting the site from the list. This popup menu initiates the remote menu including Remote Setup, Remote System Log, and Remote Event Log. Refer to 3.3 Menu – Remote Menu for more details.

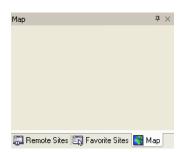
Favorite Sites Panel



The Favorite Sites panel displays the list of Favorite sites registered during DX-PC For View System setup. Selecting the Favorite site you want to connect to from the list and then dragging and dropping it in the desired position on the screen connects all remote sites registered in the Favorite site automatically.



Map Panel



The Map panel allows efficient monitoring of the remote sites by displaying a map of the selectable site. Click the right mouse button on the map panel to select the map image file (.rmp) you want to monitor from the list. The selected map image displays in the Map panel and the sites registered on the map image file will be connected. When the selected map is linked with sub-maps, clicking the linked image moves to the sub-map.

NOTE: Refer to Appendix C – Map Editor for details on editing maps.

The Map panel pops up another screen when alarm-in, motion or video loss events are detected or when you click the device icon according to the Map Editor settings. Change the popup screen location by clicking the left mouse button on the screen and dragging it to where you want it located. Clicking the right mouse button on the popup screen displays the following popup menu.

when you select 4x4.



🖾 Remote Sites 🔣 Favorite Sites 📑 Map

× 0.25	• x0.25 to x2: Sets the desired size of the Map popup screen.
× 0.5	• Full Screen: Enters the full-screen mode of the Map popup screen.
× 0.75 ✓ × 1 (initial size)	• Transparency: Adjusts the transparency of the popup screen.
× 1.25	• PTZ Set: Controls pan, tilt and zoom of the selected PTZ camera.
× 1.5 × 1.75	• Disable Time Out: Continues displaying the popup screen when events are detected by
x 2	disabling the dwell time out.
Full Screen	• Original Ratio: Displays the Map popup screen by matching its original aspect ratio.
Transparency	• Anti-Aliasing Screen: Enhances image display quality on the popup screen by smoothing
PTZ Set Disable Time out	stair stepping (aliasing) effects in the enlarged image.
Original Ratio	• User Set: Sets the mode of the current popup screens displayed on the monitor. For
Anti-Aliasing Screen	example, the monitor displays the current popup screen with enough frames for 16 cameras

NOTE: Refer to Appendix C – Map Editor, Device Setting section for more details about the popup function.

To connect to the remote site, select the device you want to connect to from the Map panel and then drag and drop it in the desired position on the screen or the Status View panel. Also, placing the mouse cursor on the device on the map displays the device status. When the device detects any event or the device is not working properly, the following status icons appear (maximum of 4).

Unplugged

Video Blind

छ

User Set...

성 Event Off

Motion

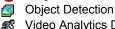
Irregular



Video Loss

Alarm In

Alarm Out



Audio Detection

Video Analytics Detection

NOTE: The device status is displayed as Irregular based on to the system check settings and as each event according to the event detection settings on the remote DVR.

NOTE: Some status icons may not be supported, depending on the specifications and version of the remote DVR.

Clicking the right mouse button on the Map panel causes a text menu screen to display. Selecting Watch Event View from the menu displays the event information of the connected remote sites. Selecting Close disconnects the current connection on the Map panel.

PTZ Control **4** × Color Control **4** × Alarm Out Control $\mp \times$ < 1 2 3 4 > ON ON ON ON OFF OFF OFF 🔯 PTZ ... 🚺 Color ... 🖪 Alarm... 🔀 Imag... 🔯 PTZ ... 🚺 Color ... 🤷 Alarm... 🞲 Imag... 🛞 PTZ ... 📴 Color ... 🙆 Alarm... 🕟 Imag...

PTZ, Color and Alarm Out Control Panels

Three panels allow PTZ control, color control, and alarm out control while live monitoring a remote site.

NOTE: Refer to 4.1 Live Monitoring for more details.

Image Processing Panel

The Image Processing panel allows enhancing played back images.

Image Processing	† ×	The Image Processing panel allows enhancing played back image
		NOTE: Refer to 4.2 Playback and Search for more details.
🔀 PTZ 🚺 Color 🞑 Alarm 💭	lmag	

Watch Event View Panel

Watch Event View			† ×
Site	Event	Date/Time	^
RemoteSite2	£\$ CAM4	06-16-2008 02:59:13	
RemoteSite2	€\$ CAM4	06-16-2008 02:59:10	
RemoteSite2	S CAM4	06-16-2008 02:58:44	
 RemoteSite2 	🕄 CAM1	06-16-2008 02:58:28	
 RemoteSite2 	🕄 CAM2	06-16-2008 02:58:26	
RemoteSite2	🕄 CAM1	06-16-2008 02:58:26	
 RemoteSite2 	£\$ CAM4	06-16-2008 02:58:23	
RemoteSite2	🕄 CAM4	06-16-2008 02:58:20	
RemoteSite2	🕄 CAM4	06-16-2008 02:58:00	
RemoteSite?	F3 CAM3	06-16-2008/02/58/00	×
🔏 Watch Event View	🚿 Emergency Event View 🚑	Report View 🕼 Search View	

The Watch Event View panel displays events detected at individual remote sites while DX-PC For View is in the live monitoring mode. The description of event icons is as follows:



NOTE: Some event icons may not be supported, depending on the specifications and version of the remote DVR.

Emergency Event View Panel

Emergency Event View			† ×
Site	Event	Date/Time	
🗹 ! RemoteSite1	1	06-17-2008 18:46:04	
🔽 ! RemoteSite1	٥	06-17-2008 18:46:01	
📃 ! RemoteSite1	1	06-17-2008 18:31:04	
🗹 ! RemoteSite1	1	06-17-2008 18:16:03	
📃 ! RemoteSite1	⊿	06-17-2008 18:01:03	
🗹 ! RemoteSite1	10	06-17-2008 17:47:03	
📃 ! RemoteSite1	⊿	06-17-2008 17:46:01	
📃 ! RemoteSite1	⊿	06-17-2008 17:45:31	
📃 ! RemoteSite1	1	06-17-2008 17:38:29	
🔲 🖲 Remote Site 1	4	06-17-2008 17:23:29	
🔏 Watch Event View 🛃	Emergency Event View	🛃 Report View 🕼 Search View	

The Emergency Event View panel displays a list of events (preset for notification at the remote site) that were called from individual remote sites (LAN connection only). Selecting an event from the list and then dragging and dropping it in the desired position on the Watch or Search screen connects to the remote site, and a checkmark is placed in the box at the left. Selecting an event or site from the list and then clicking the right mouse button causes a tooltip to appear, which contains the emergency event instruction from the remote site.

NOTE: The Emergency Event View function is available only for the remote sites that were set to notify the DX-PC For View system when configuring each event setup.

Report View Panel

3 🗞						
Date	Site	Camera	Alarm-In	Record	Record Check	Record Period
06-16-2008 16:45:00	RemoteSite3	1	Not Use	On	Off	06-15-2008 00:00:00 ~ 06-16-2008 10:49:0
06-16-2008 16:44:56	RemoteSite2	1~4				
06-16-2008 16:44:54	RemoteSite1	6, 10~16	Not Use	On	Off	06-15-2008 13:35:57 ~ 06-16-2008 15:52:
06-16-2008 16:44:44	RemoteSite3	1	Not Use	On	Off	06-15-2008 00:00:00 ~ 06-16-2008 10:48:
06-16-2008 16:44:40	RemoteSite2	1~4				
06-16-2008 16:44:38	RemoteSite1	6, 10~16	Not Use	On	Off	06-15-2008 13:35:06~06-16-2008 15:52:
06-16-2008 12:10:03	RemoteSite3	1	Not Use	On	Off	06-15-2008 00:00:00 ~ 06-16-2008 06:14:
06-16-2008 12:09:57	RemoteSite2	1~4				
06-16-2008 12:09:51	RemoteSite1					

The **Report View** panel displays the system status information of remote sites. DX-PC For View checks the remote site and reports system status. Clicking the \gtrsim icon on the panel reloads the data and clicking the \gtrsim icon prints the report out. Report Setup must be configured during DX-PC For View System setup for this feature to function. Refer to 3.3 Menu – System Menu for more details.

NOTE: Some report options may not be supported, depending on the specifications of the remote DVR.

Search View Panel

Search View [RemoteSite1]			4 ×
👧 AL AL AL AL AL	₩ 44	$\triangleleft \square \triangleright \bowtie \bowtie \qquad $	•
ا الله الله الله الله الله الله الله ال	∑ Q 00:28	2009/07/09 20:00 21:00 22:00 23:00 00:00 01:00 02:00 03:00 04:00	0.6
S M T W T F S 1 2 3 4	1	CAM1	
5 6 7 8 9 10 11 12 13 14 15 16 17 18	2	CAM2	
19 20 21 22 23 24 25 26 27 28 29 30 31	3	САМЗ	
	4	CAM4	~
🤏 Watch Event View 🚮 Emergenc	y Event V	/iew 🛃 Report View 🔞 Search View [RemoteSite1]	

The Search View panel allows time-lapse or event searching of recoded data on the remote DVR.

NOTE: Refer to 4.2 Playback and Search for more details.

Status View Panel

St	Status View 🛛 🕹 🕹									
	🖻 Al A A 16 🚺									
	Remo	oteSit	e1 - (Conne	ected					
	\square	Eve	ent	A.O.	Syste	em Cl	heck			
	1	3ţ		-0	₽		RED			
	2	4		-0	₽					
		4		••	₽	₽				
	4	Ş		•0	₽	\square				
	5	Ş			₽					
	6	Ş			₽					
	7	Ş			₽					
	8	4			₽					
	9	4			₽					
	10	Ş			₽					
	11	Ş			₽					
	12	3ș			₽					
	13	3ș			₽					
	14	Ş			₽					
	15	Ş			₽					
	16	Ş			₽					
	Rec.	From			08 22:					
		:c. To tatus			08 15: 2.					
				w		8				
	Ve	rsion			1.1.0					

DX-PC For View provides a status display, remote setup, system log and event log view of the connected remote site in real-time. To display a status of the remote site, select a camera or a site from the Remote Site list and drag it to the Status View panel. You can also select **Connect Status** from the popup menu displayed by clicking the right mouse button after selecting the site from the Remote Site list.

NOTE: Refer to 4.5 Status View for more details.

3.3 Menu



System Menu

DX-PC For View Remote Operation Software [RemoteSite1]								
Syst	em <u>V</u> iew <u>R</u> emote	Eavorite Seguence Record Image Layout Help						
22	Setup	🎓 🗣 🚱 • 🖻 🗄 🕀 🖽 🌐 🎟 25 32 36						
Þ	Load Setup File	₽ × CAM1						
Xa	Save Setup File							
<u>an</u>	Batch Job Setup							
	Disconnect							
	View Log							
	Exit							

Setup: Allows setting up the system operation and remote site configuration.

tup	
ystem 1 System 2 Remote Sites Favorite Sites Sequence	Sites
Date/Time Format	
Date/Time:	07-09-2008 15:57:50
Date Format:	
Time Format:	
Display Option	
Screen Option:	Watch Screen
	Search Screen
	Watch and Search Screen Hide the Message Box
Drag & Drop Popup Option:	✓ Use Left Mouse Button ✓ Use Right Mouse Button
	Drawing Mode Setup
	OSD Setup
	Load Default Map at Startup
Map File Path:	
Recording Setup	
recording social	
	Overwrite
	Recording Mode Setup
Recording Folder Path:	C:\RASplus\Recording
Size(MB);	640
Capacity:	
	OK Cancel

System 1: Set up the date/time format for DX-PC For View, display option, and panic recording function.

- Date/Time Format: Set the date/time format.
- Display Option: Set up the screen display, drag & drop popup option, display acceleration and OSD. - Screen Option: Select Watch Screen to use the screen for live monitoring only, Search Screen to
- Screen Option: Select Watch Screen to use the screen for live monitoring only, Search Screen to use the screen for search only, or Watch and Search Screen to use the screen for both live monitoring and searching. Selecting Hide the Message Box hides the message box that displays the status information about DX-PC For View and remote site connections.
- Drag & Drop Popup Option: Select which mouse button will be used when displaying popup menu screens from Use Left Mouse Button, Use Right Mouse Button or both (Watch and Search Screen mode only).
- Drawing Mode Setup...: Set up the display options for the screen.

Drawing Mode							
O Normal Drawing							
• Fast Drawing (Default)							
Fast Drawing (YUV420)							
Fast Drawing (RGB32)							
Overlay (YUV420)							
Overlay (RGB32) Overlay (RGB565)							
							Deinterlacing
Aspect Ratio	Fit to Screen						
Anti-Aliasing Screen							
Use Slow Connection Draw Mode							
ОК	Cancel						

- Normal Drawing: Depends on your PC's CPU performance and displays images in low speed (DIB Draw Mode).
- Fast Drawing (Default): Displays image in normal speed (Direct Draw Mode).
- Fast Drawing (YUV420/RGB32): Depends on your PC's video card performance and displays images in high speed (Direct Draw Mode).
- Overlay (YUV420/RGB32/RGB565): Displays image in high speed (Direct Draw Overlay Mode).
- Deinterlacing: Set up the deinterlace filter. Using a deinterlace filter for interlaced video enhances image display quality by eliminating horizontal scan lines and noise in areas with motion.
- Aspect Ratio: Set up the image aspect ratio displayed on the screen. Selecting Fit to Screen displays images by fitting them to the screen size, and selecting Original Ratio displays images by fitting them within the screen size while maintaining their original ratio.
- Anti-Aliasing Screen: When using the option, the image display quality on the screen will be enhanced by eliminating stair-stepping (aliasing) effects in the enlarged image.
- Use Slow Connection Draw Mode: When using the option in slow network environments such as ADSL and connecting to a remote site in the live monitoring mode, the time taken to display the first image on the screen will be reduced.

NOTE: If the image cannot be displayed properly because of your PC's specifications, lower the drawing mode level.

NOTE: While in the *Fast Drawing* mode, the drawing speed might decrease when the DX-PC For View screen is not located on the primary monitor.

NOTE: *Overlay* drawing mode may not be supported, depending on the type of video card installed in your PC. Video cards with an ATI chipset are recommended.

NOTE: When using dual monitors, selecting *Overlay* drawing will display the image only on the primary monitor.

NOTE: When using a low-end computer, image drawing speed might decrease while using a deinterlace filter depending on the type of deinterlace filter.

NOTE: When using a low-end computer, image drawing speed might decrease when the *Anti-Aliasing Screen* option is selected.

- OSD Setup...: Select options (Title, Time Info, Date Info, Text-In and Overlay Text-In Data) to display on the screen.
- Load Default Map at Startup: Select whether or not the user-defined map file is loaded automatically when DX-PC For View starts, and designate the path of the map file (.rmp) to load.

• Recording Setup: Set up the Use (On or Off) of the panic recording function and overwriting option of the recording folder (On or Off). When using the panic recording function and overwriting option, DX-PC For View continues recording when the hard disk drive is full by overwriting the oldest video. Designate a recording folder path and set the recording folder size from 640MB to 2,048MB. Capacity shows the remaining space of the recording folder.

NOTE: The recording folder size cannot be changed once it has been set. Designate another recording folder path if you want to expand the recording space.

- Recording Mode Setup...: Set up the panic recording mode.

Recording Mode Setup	X					
• Visible Watch Camera						
OUser Assignment Setup						
🔿 Camera Range Setup						
Camera 1 🔷 - 16 🔷						
OK Cancel						

- Visible Watch Camera: Records camera channels currently displayed on the Watch screen.
- User Assignment Setup: Records camera channels assigned by the user on the Watch screen.
- Camera Range Setup: Records camera channels within preset channel range. Select the boxes beside Camera and adjust camera range up to 16 channels.

NOTE: Panic recoding will NOT be made for the cameras currently not displayed on the Watch screen even though they are set up to be recorded.

NOTE: When selecting the User Assignment Setup mode, the user can assign camera channels to record manually on the Watch screen. Select a camera on the Watch screen and click the right mouse button then select *Set Record Camera* in the text menu screen. The gray **R** icon displays on the selected camera screen.

stem 1 System 2 Remote Sites Favorite Sites Sequence 9	Sites
○ Dial-up Network	
	Use Modem
Select Your Modem:	
Security Option	
Verify Password:	Refore Setur
	Before Startup Change
	Before Shutdown
Network Option	
Callback IP Port Number:	8201 (8000 ~ 12000) Event Setup
PC-Based DVR Upgrade Port:	8300 (8000 ~ 12000)
Report Setup	
Report Use:	Use Report
Report Check Interval:	
heport encortante van	
DVR Name Service	
Server IP Address:	dvmames.net
Server IP Port Number:	
Server 17 For thumber.	(10000 × 12000, derault 10088)
Startup Settings	
	Reselect Language on Next Startup
	Automatically Run RASplus When to Log on to Windows

System 2: Set up the modem connection information for remote access, system password, network option, report function and DVRNS server.

- Dial-up Network: Select Use modem if you want to use a modem for remote access.
- Security Options: Designate whether password confirmation is required Before setup, Before startup, or Before shutdown of DX-PC For View. Click the Change button to change the password.
- Network Option: Set up the IP port number (from 8000 to 12000) that is used for network connection when receiving a callback message from a remote site, and the upgrade port number that is used for upgrading the PC-based DVR.

NOTE: The IP port and upgrade port numbers you enter should match the values set during the network setup of the remote DVR.

 Event Setup...: Enter the number of emergency events displayed in the Emergency Event panel. Set up DX-PC For View to sound when events are detected by selecting events from the list and designating the sound file (.wave) path. You can set up a different sound for each type of event.

Event Setup			X
Count of Emergency Event	to display	100 (10~	1000)
Event	Watch	Emergency	~
Alarm-In			
Motion	ō		
Video Loss			
Text-In			
Alarm-In Bad			
Disk S.M.A.R.T.		\checkmark	
Recorder Bad			
Disk Bad		\checkmark	
Disk Full		\checkmark	~
Sound Path :			
C:\RASplus\Callback.wav		Fin	d File
		ОК	Cancel

- Report Setup: Set up the Use (On or Off) and check intervals (from 1 to 24 hours) of the report function. When using the report function, DX-PC For View checks on the remote site based on the user-defined interval and reports system status.
- DVR Name Service: Set up the IP address and port number (from 10000 to 12000) of the DVRNS (DVR Name Service) server. The IP address and port number you enter should match the values set during the DVRNS setup of the remote DVR you want to connect to.

NOTE: The DVRNS server cannot be configured when using modem connections. Refer to Appendix B for more details on DVR Name Service.

• Startup Settings: Select Reselect Language on Next Startup to change a language when DX-PC For View starts. Select Automatically Run DX-PC For View When to Log on to Windows to run DX-PC For View automatically when logging onto Windows.

tem 1 System 2 Remote Sites Fa	vorite Sites Sequence Sites				
Group List		Rem	ote Site List		
RemoteSites I RemoteSite1 I RemoteSite2 I RemoteSite3	Site Name IIII RemoteSite1 IIII RemoteSite3	Address 10.0.11.111 10.0.15.36 10.0.11.103	Use Modem Off Off Off	Use DVRNS Off Off Off	Admin Port 8200 8200 8200
Add Change Remov	e List All				Find

Remote Site: Configures the connection list for remote access.

• Add: Click the Add button and enter the information about the remote site you want to add.

Add Site	
Reference Group	
A RemoteSites	✓ Add
Device Setup Device:	
Remote Site Setup	
Site Name:	
IP Address:	Port
Camera:	16
	Use Modem Use DVRNS PC-Based DVR
Login Setup	
User ID:	
Password:	
Confirm Password:	
	No Password
Emergency Event Instruction	
	OK Cancel

- Reference Group: The site should be assigned to a Reference Group for effective management of multiple remote sites. Click the Add button to create a new reference group.
- Device Setup: Select the system of the remote site to register. When registering an IP camera, select IP Camera.
- Remote Site Setup: Select PC Based DVR when registering a DVR at the remote site that is PC based. Enter a site name and the IP address of the remote site (modem telephone number for dial-up connections), acquired from your network administrator. Click the Port... button to set up the IP port number of each program. The IP port number should match the value set during the network setup of the remote DVR. If the remote system version does not allow you to set the IP port numbers, use the following values: "8200" for Admin, "8016" for Watch, "10019" for Search, and "8116" ("8115" for a PC-based DVR) for Audio. Select the number of cameras at the remote site. For example, selecting "8" from the list when registering a 16-channel DVR displays video of the first 8 channels on the screen.

NOTE: When using DVRNS server, place a checkmark in the Use DVRNS box. The *IP Address* field will be changed to *DVR Name*, and you can enter the name of remote site registered on the DVRNS server. The DVR name you enter should match the name set during the DVRNS setup on the remote DVR.

- Login Setup: Enter the user ID and password of the remote site to be accessed. If you have entered a user ID and a password, the site will be connected automatically without a dialog box requesting a password. Select No Password for remote systems that do not require a password (e.g., guest login).

NOTE: Up to 32 characters may be used for the site names, telephone numbers and user IDs, and up to 8 characters may be used for passwords.

- Emergency Event Instruction: Enter the message to display when emergency events are called in from the remote site. The Emergency Event Instruction can be checked by clicking the right mouse button after selecting the event or the site from the list in the Emergency Event panel.
- Change: Select the group or site you want to change and click the Change button, or double click the group or the site to change. Then, edit the site information.
- Remove: Select the group or site you want to remove and click the Remove button.
- List All: Displays all registered remote sites.
- Find: Enter the group name or site name to search for and click the Find button to display the matching groups or sites in the list.

tem 1 System 2 Remote Site	Favorite Sites Sec	quence Sites						
Favorites								
Site	Name: 🔓 Favorite1		~	Add	Chan	ge I	Remove	
Auto Connect								
	Connect Favo							
Fav	orites : 🔓 Favorite1		~					
Group List				Fav	orites			
RemoteSites	[VV]Cam1	[VV]Cam2	[W]Cam3	[VV]Cam4	[W]Cam5	[VV]Cam6	[VV]Cam7	[W]Cam8
EmoteSite1 EmoteSite2								
😟 📖 RemoteSite3	[VV]Cam9	[VV]Cam10	[VV]Cam11	[W]Cam12	[VV]Cam13	[VV]Cam14	[VV]Cam15	[VV]Cam16
	[VV]Cam17	[WV]Cam18	[VV]Cam19	[W]Cam20	[VV]Cam21	[WV]Cam22	[VV]Cam23	[VV]Cam24
	[VV]Cam25	[W]Cam26	[VV]Cam27	[W]Cam28	[W]Cam29	[VV]Cam30	[VV]Cam31	[W]Cam32
	[VV]Cam33	[VV]Cam34	[VV]Cam35	[VV]Cam36	[W]Cam37	[VV]Cam38	[VV]Cam39	[VV]Cam40
	[V/]Cam41	NVICam42	[VV]Cam43	[VV]Cam44	[W]Cam45	[VV]Cam46	[VV]Cam47	[W]Cam48
	[11]comm	[Fijouniz	(Frijodanije	[rijosini i	[, ijouiii io	ti i jouini io	[11]0001111	[rijodinio
	[Vv]Cam49	[W]Cam50	[VV]Cam51	[W]Cam52	[W]Cam53	[VV]Cam54	[VV]Cam55	[W]Cam56
	[VV]Cam57	[VV]Cam58	[VV]Cam59	[VV]Cam60	[VV]Cam61	[VV]Cam62	[VV]Cam63	[VV]Cam64
			Perm	ove Selected	Camera		move All Car	oerac
			Reili	ove selected	Calliera		sillove All Cal	lieras

Favorite Site: The Favorite Site is a user-defined connection list that combines more than one remote site, so multiple sites can be monitored at the same time with a single connection. Add a new Favorite Site and define it by dragging and dropping sites and/or cameras to the Favorites map. Up to 64 cameras can be monitored at a time when each camera is assigned to its own position on the Favorites map.

- Favorites
 - Site Name: Select a registered Favorite site from the drop-down list.
 - ADD: Adds a new Favorite site. Clicking the button displays the Favorites dialog box. Enter the name of the Favorite site to add, and Select the desired screen layout used when the Favorite site is connected.
 - Change: Select the Favorite site to change from the Site Name list and click the Change button. Then change the site name or screen layout.
 - Remove: Select the Favorite site to remove from the Site Name list and click the Remove button.
- Connect Favorite Site at startup: Select whether or not your favorite site is automatically connected when DX-PC For View starts.
- Remove Selected Camera: Removes selected cameras from the Favorites map. Cameras can also be removed by clicking the right mouse button after selecting the camera.
- Remove All Cameras: Removes all cameras from the Favorites map.

NOTE: Cameras can be selected by clicking the left mouse button on the camera in the Favorites map. Selected cameras will be outlined in red. Clicking the left mouse button on the camera while holding the Ctrl key toggles camera selection On and Off. Multiple cameras can be selected by clicking the left mouse button while holding the Shift key.

NOTE: "[W]" (Watch Screen) and "[S]" (Search Screen) displayed to the left of the camera number indicates the display option of each camera. The display option can be selected when registering a Favorite site. Selecting the remote site from the Group List and dragging and dropping it to the Favorites map using the right or left mouse buttons (This is user-defined and must be set during System setup) displays the text menu screen. Select the desired display option between *Watch Screen* and *Search screen*. If you do not select the display option, Watch Screen display will be assigned to all cameras of the registered Favorite site by default.

NOTE: Clicking the \ge button on the toolbar will save the current screen layout of the Watch screen or Search screen directly to the Favorite site.

NOTE: The Favorite Site list does not work with modem connections.

Craum Link	_	Auto Sequencing	
Group List		Auto Sequencing	
ema RemoteSite1 ema RemoteSite3 ema RemoteSite3	Add Add All Remove Remove All		

Sequence Site: Configure the sequence site. DX-PC For View connects to the registered sites sequentially allowing connection to more than one remote site. Register an Auto Sequencing group and add desired sites in the Group List to the Auto Sequencing group. Video from the sites added to the Auto Sequencing group is displayed on the screen in the preset sequence interval during the sequence monitoring.

- Sequence Dwell Time: Displays the preset sequence intervals (from 5 seconds to 1 hour) for each connection to the sites registered in the Auto Sequencing group. You also can change the preset sequence interval.
- Auto Sequencing: Displays the list of registered Auto Sequencing groups. You can add a new group (max. 20), change the Auto Sequencing settings of a group or delete the group by using the popup menu displayed by selecting the Auto Sequencing group and clicking the right mouse button.
- Add: Select the site to add from the Group List and click the Add button. Select an Auto Sequencing group to add the site from the popup menu displayed by clicking the button.
- Add All: Adds all sites in the Group List to the Auto Sequencing list. Select an Auto Sequencing group to add all sites from the popup menu displayed by clicking the button.
- Remove: Select the site to remove from the Auto Sequencing list and click the Remove button.
- Remove All: Removes all sites in the Auto Sequencing list.

NOTE: The Auto Sequencing list is not valid with modem connections.

Load Setup File: Allows applying the settings of the System – Setup menu saved as a .xml file format to the DX-PC For View system. Loading the setup file can also be performed by clicking the button on the toolbar.

- Save Setup File: Allows saving the current settings of the System Setup menu as a .xml file format. Saving the setup file can also be performed by clicking the is button on the toolbar.
- **Batch Job Setup:** Allows upgrading or setting up multiple remote DVRs using the Batch Job Setup screen.

BatchJob Setup		×
Upgrade Setup		
Group List		Upgrade Sites
RemoteSites Tem RemoteSite1 Tem RemoteSite2 Tem RemoteSite3		🔏 RemoteSites
	Add	
	Add All	
	Remove	
	Remove All	
	Upgrade Now	
		OK Cancel

Upgrade: Sets up the remote upgrade job for remote sites. First, select the remote sites to upgrade from the Group List, and add them to the Upgrade Sites list by clicking the Add button. Then, click the Upgrade Now button to initiate the remote upgrade job for listed Upgrade Sites.

- Add: Select the site to add from the Group List and click the Add button.
- Add All: Adds all sites in the Group List to the Upgrade Sites list.
- Remove: Select the site to remove from the Upgrade Sites list and click the Remove button.
- Remove All: Removes all sites in the Upgrade Sites list.
- Upgrade Now: Upgrades the software on the Upgrade Sites.

Enter File Name	
Enter file name.	
PC Based DVR	
OK Cancel	

NOTE: When upgrading a PC-based DVR, select *PC Based DVR* and then select the desired upgrade folder.

BatchJob Setup		X
Upgrade Setup		
Group List		Setup Sites
RemoteSites RemoteSite1 RemoteSite2 RemoteSite3		
	Add	
	Add All	
	Remove	
	Remove All	
	Setup Now	
		OK Cancel

Setup: Sets up the remote setup job for remote sites. First, select the remote sites to set up from the Group List, and add them to the Setup Sites list by clicking the Add button. Then, click the Setup Now button to initiate the remote setup job for Setup Sites.

- Add: Select the site to add from the Group List and click the Add button.
- Remove All: Removes all the sites in the Setup Sites list.
- Setup Now: Performs the setup on the Setup Sites.

NOTE: Batch job setup of remote sites is NOT supported for the PC-based DVRs.

- Disconnect: Disconnects all current connections. Disconnection can also be performed by clicking the button on the toolbar.
- View Log: Displays log information saved in the DX-PC For View system.

NOTE: You can also display the Log Viewer screen by selecting *Log Viewer* from the DX-PC For View options under the *Start* menu in Windows.

Detail Condition Add Cond		
Report Check Emergency		
Report Check Emergency Log Type System Emergency Benergency Benergency Benergency Benergency Benergency		
Log Type System Emergency Report	O Today O 3 Day O 1 Week O 1 Month O 3 Month O 6 Month	
Log Type System Energency Benergency Benergency	kion	
Log Type System Emergency Benergency Beport		
System Senergency Secto Job Secto Job	et internet	
配Emergency ・ の の 日本 日本 日 本 日 本 日 、 の の 日 、 の 日 、 の 日 、 の 日 、 の 日 、 の 日 、 の 日 、 の 日 、 の 日 、 の 日 、 の 日 、 の 日 、 の 日 、 の 日 、 の の の の の の の の の の の の の	Log Count	
創Emergency 細路atch Job 劇Report	5065	
dad Batch Job	10344	
Report	0	
Check Emergency	64	
	1	

View Log: Displays the type of log and the number of log entries of DX-PC For View. Selecting a log type from the list displays all entries of the selected log type, and you can search for the desired log by setting up a search filter.

- Filter: Set up the search condition.
 - Search Time: Set up the time range to search within. Selecting Current Time and the desired period searches for logs from the current time and as far back as the selected time span. Selecting Detail Time allows you to set up a specific starting and ending time to search within.
 - Detail Condition: Set up the desired search parameters. Select a filter target from the second list, and select a filter from the third list (enter a filter in the text box). Then select a comparison operator from the last list; Equal to search for logs that satisfy the condition (case sensitive), Not Equal to search for logs excluding logs that satisfy the condition, Like to search for logs that include the entered keyword or Not Like to search for logs that do not include the entered keyword. Clicking the Add Condition button allows you to add more search conditions. Selecting AND searches for logs satisfying all conditions. Selecting OR searches for logs satisfying at least one of the conditions.
- Search: Displays log entries satisfying the preset search filter.
- Reset: Resets the search filter.

File

File Help	• Lo
Log File Open	• De
Delete Log	• Sa
Save As Print	- • Pr • Cl
Close	_

- Log File Open: Opens a log file (.db).
- Delete Log: Deletes logs older than a certain age.
- Save As...: Saves the log information in the list as a text (.txt) or CSV (.csv) file.
- Print: Prints the log information.
- Close: Closes the Log Viewer screen.

Exit: Disconnects all current connections and exits DX-PC For View program.

View Menu

🗟 DX-P	C Fo	r View R	emote O	peration S	ofi	ware	e [RemoteSite1]
<u>S</u> ystem	⊻iew	<u>R</u> emote	<u>F</u> avorite	Seguence	R	ecord	Image Layout Help
i 🗈 🕅		<u>T</u> oolbar			۲		
Remote Si		<u>S</u> ite Panel			۲	AM1	
		<u>⊂</u> ontrol Pa	nel		۲		No the second
= & F	35	Watch Eve	nt View Pa	nel			
**************************************	3	Emergency	/ Event Vie	w Panel			
	Ø	<u>S</u> earch Vie	w Panel				
	63	<u>R</u> eport Vie	w Panel				A DB CCI
		<u>S</u> tatus Viel	w Panel				

Displays or closes the toolbar and panels.

Remote Menu

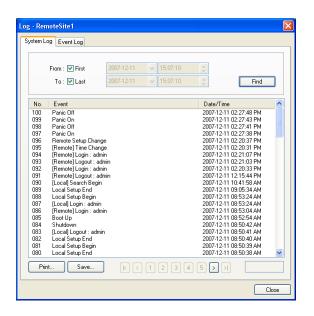
R DX-PC For View Remote Operation Software [RemoteSite1]						
<u>S</u> ystem ⊻iew	Rem	ote	<u>F</u> avorite	Seguence	R <u>e</u> cord	Image Layout Help
I TI Ka (53	Rer	note <u>S</u> etup			□ 🕀 🖽 🌐 🕮 25 32 36
Remote Sites	53	Rer	note Syster	m Log	CAM1	and the second
	<i>3</i> 6	Rer	note <u>E</u> vent	Log		

NOTE: The Remote menu can also be activated by clicking the right mouse button after selecting the remote site on the Remote Sites panel.

Remote Setup: Allows to change the setup of a remote DVR. Select the remote site on the Remote Sites panel, initiate the Remote Setup menu, and the setup screen displays.

NOTE: Refer to the user manual for the remote DVR for more details on system setup.

Remote System Log/Remote Event Log: Displays the system log and event log information of a remote DVR. Set the time range of interest and click the Find button. The log entries within the time range displays in the list. 100 results can be displayed in a single page. Click the Move buttons to display additional results.



- From: Adjust the search starting date and time. When First is selected, it will search from the first logged item.
- To: Adjust the search ending date and time. When Last is selected, it will search to the last log.
- Find: Displays remote log entries within the selected period.
- Print...: Prints the log information.
- Save...: Saves the log information as a text or CSV file (UTF-8 encoded).
- Move Buttons: Moves to the first page (14), previous page (<), next page (>) or last page (>). You can go directly to a log page by clicking the page number button.
- Close: Closes the Log dialog box.

Favorite Menu



NOTE: The Favorite menu can also be accessed using the toolbar controls.

Saves the current screen layout directly to the Favorite site.

Sequence Menu

🙊 DX-PC For View Remote Operation Software [RemoteSite1]					
System View Remote Eavorite	Seguence Record Image	Layout Help			
IIII668884 × •	Auto Sequence On	📑 🌐 🌐 25 32 36			
Remote Sites	Auto Sequence Off	and the State			

NOTE: The Sequence menu can also be accessed using the toolbar controls.

Starts or ends auto sequencing (Watch Screen Only). Clicking Auto Sequencing On allows you to select a desired Auto Sequencing group.

Record Menu

🕵 DX-PC For View Remote Operation S	oftware [RemoteSite1]	
System View Remote Eavorite Seguence	Record Image Layout Help	
	• Panic Recording On	25 32 36
Remote Sites $ au imes$	Panic Recording Off	300
0 FP F7 FX	Record Play	Contraction of the second

NOTE: The Record menu can also be accessed using the toolbar controls.

Starts or ends panic recording. Selecting **Record Play** initiates the RecordPlayer program and plays recorded video. Refer to *4.4 Panic Recording* for more details.

Image Menu

🗟 DX-PC For View Remote Operation S	oftware	[RemoteSite1]	
System View Remote Eavorite Seguence			Help
E # L L # # L ☆ D & &	• 🔊	😪 Save	1 🏢 25 32 36
Remote Sites Ψ $ imes$	CAM1	🗞 Print	and set

NOTE: The Image menu can also be accessed using the toolbar controls.

- Save: Saves the current image as a bitmap (.bmp) or JPEG (.jpg) file.
- Print: Prints the current image.

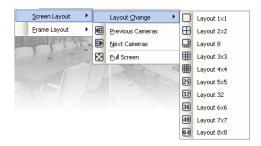
NOTE: Refer to 4.3 Additional Functions for more details.

Layout Menu

🗟 DX-PC For View Remote Oper	ation Softwar	e [Remot	eSite1]
<u>System View R</u> emote <u>F</u> avorite Se	guence R <u>e</u> cord	I Image	Layout Help
En La La La La Co C	à 🗞 🔹 🗈	1 D E	Screen Layout
Remote Sites			Erame Layout 🔹 🕨

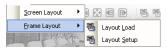
NOTE: The Layout menu can also be accessed using the toolbar controls.

Screen Layout



Select the desired screen layout using the layout toolbar. When changing the screen layout, the selected camera on the current screen will be located in the first cell of the new layout. When in one of the multiview formats, selecting Previous Cameras or Next Cameras will move to the previous or next page. In other words, when viewing Cameras 1 to 4 in the quad format, selecting Previous Cameras will display Cameras 61 to 64 and selecting Next Cameras will display Cameras 5 to 8. Selecting Full Screen enters the full-screen mode. To return to the previous screen mode, press the Esc key on the keyboard or select FullScreen Close (x) from the popup menu displayed by clicking the right mouse button.

Frame Layout



 Layout Load: Select the desired frame layout and click the Load button to apply the selected frame layout to DX-PC For View.

Layout Load	\mathbf{X}
Default Layout	Admin Layout
Full Layout	O Hide Layout
User Defined Layout Layout Name Layout 1	
	Load Cancel

- Default Layout: Displays the panels that are used most frequently in the Watch and Search screen modes.
- Admin Layout: Displays only the panels that are used most frequently in the Admin screen mode.
- Full Layout: Displays all the panels.
- Hide Layout: Hides all panels and displays only the screen.
- User Defined Layout: Displays the user-defined layout.

- Layout Setup: The user can configure the frame layout by displaying panels on the screen where they are most convenient. Set up the user-defined frame layout.

Layout Setup	
🔲 Always Load La	ayout at RASplus Startup
Layout	Default Layout
New Layout	Save
Layout List	
Layout Name	Rename
Layout 1 Layout 3 Layout 4	Delete
	OK Cancel

- Always Load Layout at DX-PC For View Startup: Select whether or not the selected frame layout loads automatically when DX-PC For View starts.
- Save: Enter a layout name and click the Save button to save the current frame layout as a new user-defined layout.
- Rename: Select the layout to change from the Layout List and click the Rename button. Then change the layout name.
- Delete: Select the layout to delete from the Layout List and click the Delete button.

NOTE: Up to 10 user-defined layouts can be saved.

Help Menu

Displays DX-PC For View version information.

3.4 Toolbar

The Toolbar allows convenient access to desired functions.

😨 DX-PC For View Remote Operation Software [RemoteSite1]								
System View Remote Favorite Seguence	R <u>e</u> cord Image Layout Help							
化合产 月代 医二乙酸	• 🕒 🗀 🖽 🌐 25 32 36 49 64 🔂 🖲 🕑 🗒							
Remote Sites Ψ $ imes$	CAM1 CAM2							
() 🖙 🐨 😴								

The controls on the toolbar perform functions as described below:

	i 🖪 👪 🕽	5 in II	🚇 🏠 🕒	G 😓 🖻		
 Disconnect Batch Job Setup Save 	III DX-PC	For View Se	🔂 Sa	ad Setup Fil ave Favorite anic Recordir	Sites 📮	Save Setup File Auto Sequence Play
Single Quad	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Ⅲ 25 4×4 5×5	32 36 1+32 6×6	49 64 7×7 8×8	Full Previou	∎ Bext

Select the desired screen layout using the layout toolbar. When changing the screen layout, the selected camera on the current screen will be located in the first cell of the new layout. When in one of the multi-view formats, clicking the do r b button will move to the previous or next page.



Clicking 🗟 (Layout Load) will apply the selected frame layout to DX-PC For View, and clicking 🖥 (Layout Setup) allows you to set up the user-defined frame layout.

User's Manual

Chapter 4 – Operation

4.1 Live Monitoring

DX-PC For View provides remote monitoring functions for viewing video images in real time from either a single site or multiple sites. In addition, when events are detected at a remote site while in the live monitoring mode, DX-PC For View displays the event information on the Watch Event View panel. In order to perform live monitoring, the display option must be set to Watch Screen or Watch and Search Screen during System setup.

To connect a remote site on the Watch screen, select the site or camera you want to connect to in the Remote Site, Favorite Sites or Map panel and then drag and drop it in the desired position on the screen. The ticon will be displayed on each Watch screen. To disconnect the current connection, select the site or camera you want to disconnect to in the Remote Sites, Favorite Sites or Map panel or on the screen and then click the solution on the toolbar or select Disconnect from the System drop-down menu.

NOTE: Some DVR models will only transmit images to the DX-PC For View system while recording video.

NOTE: When selecting the display option of *Watch and Search Screen* during System setup, the remote site can also be set to connect using the right or left mouse buttons (This is user-defined and must be set during System setup). Select *Watch Screen* to connect to the selected site on the Watch screen when the text menu screen appears.

Watch Screen
Search Screen

Screen Layout and Frame Layout



DX-PC For View provides multiple screen layout options. The formats available are single-screen, quad, 1+7, 3x3, 4x4, 5x5, 1+32, 6x6, 7x7, 8x8 and full-screen. When in one of the multi-view formats, clicking the **(f)** or **(b)** button will move to the previous or next page. To view a specific image in the single-screen mode, move the cursor to that image and double click the left mouse button. To return to the previous screen mode from the single-screen mode, double click the left mouse button in the monitoring window.

Clicking 🗟 (Layout Load) will apply the selected frame layout to DX-PC For View, and clicking 🖥 (Layout Setup) allows you to set up the user-defined frame layout.

Audio Communication

DX-PC For View supports audio communication between the DX-PC For View system and the remote site equipped with two-way audio. If you want to enable audio communication with the remote site, select any camera of the remote site on the screen and click the right mouse button. Selecting Enable Audio from the menu displays the following audio control panel.

NOTE: The (1) icon will display on each camera screen when audio communication is available between the DX-PC For View system and the remote site.



If you want to send audio to the selected remote site, click the \square button and talk into the microphone. If you want to monitor live audio from the selected remote site through the attached speaker, click the \blacksquare button. Clicking both \square button and \blacksquare button allows two-way communication. Clicking the \times button disables audio communication.

If the remote DVR allows you to select an audio channel to monitor from the DX-PC For View system, clicking the 🔳 button displays the Select Audio Channel dialog box. Select a camera channel associated with an audio channel to monitor and click the OK button.

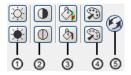


Sequence Monitoring

Clicking the D button on the toolbar and selecting a desired Auto Sequencing group connects to the registered sites sequentially allowing connection to more than one remote site and displays images from selected cameras. Clicking the button during sequence monitoring releases sequence monitoring and maintains the current connection. For sequence monitoring to function, the sequence sites should be registered during System setup. Refer to 3.3 Menu – System Menu for details on configuring the sequence site.

NOTE: While in the sequence monitoring mode, you cannot manually connect to sites by dragging and dropping with the mouse.

Color Control



① Brightness ② Contrast ③ Saturation ④ Hue ⑤ Undo

Adjust the brightness, contrast, saturation and hue of live video for each camera by clicking the target icons on the Color Control panel. Clicking the *i* icon cancels the image processing operation and reloads the original image. Only the administrator can adjust the image at DX-PC For View.

NOTE: It is important that cameras are properly adjusted. These adjustments cannot make up for improperly adjusted cameras when the images are recorded.

NOTE: Not all DVRs support the color control at DX-PC For View. Refer to the user manual of the DVR.

PTZ Control



Move buttons
 Iris Close/Open

② Zoom Out/In

③ Focus Near/Far

⑤ View Preset/Set Preset ⑥ Advanced menu

Select a PTZ camera at the remote site, and control pan, tilt and zoom. Only the administrator can control PTZ at DX-PC For View. The P icon will display on each camera screen when PTZ can be controlled remotely.

NOTE: Control features of the Advanced menu will be enabled when a camera connected to a DVR supports PTZ features such as Speed, Auto Pan, Tour, etc. and the DVR supports remote PTZ control. Depending on the specifications of the PTZ camera, some features of the Advanced menu may not be active.

NOTE: Using the mouse for PTZ control is supported. Click the left mouse button on the image and move that image in the direction you want to by dragging the mouse. Use the mouse wheel to zoom in and out.

NOTE: Not all DVRs support the PTZ control at DX-PC For View. Refer to the user manual of the DVR.

Alarm Out Control

< (1	2	3	4	>
		_	ON	\equiv	
0	DFF	OFF	OFF	OFF	

Control alarm out devices on the remote DVRs by clicking the ON or OFF buttons. Only the administrator can control an alarm out at DX-PC For View.

NOTE: Not all DVRs support the alarm out control at DX-PC For View. Refer to the user manual of the DVR.

4.2 Playback and Search

DX-PC For View allows you to play back and search recorded images on remote DVRs. It also provides additional functions including zoom, various image enhancements, image saving and image printing. To use remote playback and search functions, the display option must be set to of Search Screen or Watch and Search Screen during System setup.

To connect a remote site on the Search screen, select the site or camera you want to connect to in the Remote Site or Favorite Sites panel and then drag and drop it in the desired position on the screen. The Q icon will be displayed on each Search screen. The remote site connection on the Search screen will automatically be disconnected if there is no activity for a specified amount of time. Click the state button on the toolbar or select Disconnect from the System drop-down menu to disconnect the current connection manually.

NOTE: Connecting to a Favorite site will be available if the Search Screen display option was set up to connect to selected Favorite sites. Refer to 3.3 Menu – System Menu for more details on Favorite Site setup.

NOTE: When selecting the display option of *Watch and Search Screen* during System setup, the remote site can be also be set to connect using the right or left mouse buttons (This is user-defined and must be set during System setup). Select *Search Screen* to connect to the selected site on the Search screen when the text menu screen appears.



It is possible to display cameras in both the Watch Screen mode (live view) and Search Screen mode at the same time. For example, you can connect to a remote DVR site with nine cameras. Drag and drop the site into the first frame on the viewing screen and select Watch Screen. Live video will display in the first nine frames on the screen. Then, drag and drop the site into the 10th frame on the viewing screen and select Search Screen. You will be able to view any video recorded on the remote DVR in frames 10 through 18.

Search View Panel

iearch View [RemoteSite1]					= ×1.0	1		1		џ >
🖗 🎗 🖻 🖗 🐴	₩ 44 <		> 60 61		= x 2	€ ⊕	•	- -	*	<u> </u>
ا الله الله الله المعام معام	∑ Q 00:28 20:	00 21:00	2009/07/09 22:00	23:00	00:00	01:00	2009/07/ 02:00	/10 03:00	04:00	05
S M T W T F S 1 2 3 4	1	AM1								
5 6 7 8 9 10 11 12 13 14 15 16 17 18	2 CA	AM2								
19 20 21 22 23 24 25 26 27 28 29 30 31	3 СА	AM3								
	4 C.A	AM4								~
🔏 Watch Event View 🐼 Emergenc	y Event View	🛃 Report Vie	w 🚷 Search	View [Remote	Site1]					

The Search View panel consists of playback and search controls, time-lapse search table, and event search table.

The playback buttons on the Search View panel perform the following functions as described below:

Go to the First Image	😽 Fast Backward Play	Go to the Previous Image
Stop	Play	Go to the Next Image
➢ Fast Forward Play	Go to the Last Image	

NOTE: The speed of fast forward depends on network bandwidth and the number of images per second recorded.

You can control the playback speed of images that are currently being played back by using the $\times 1.0$ control slider. You can control the fast forward or fast backward playback speed of images that are currently being played back fast forward or fast backward by using the $\times 2$ control slider.

You can display the selected image on the screen in its original size by clicking the O button. Clicking the button again displays the image in the preset aspect ratio. You can enlarge a specific part of the image up to five times using the O control slider. The user can electronically pan and tilt within the enlarged image by dragging the image using the mouse. Click the left mouse button on the enlarged image and drag to move its position. Clicking the O button cancels the enlargement and resets the image. You can change the brightness of the current image using the O control slider. Clicking the O button cancels the brightness changes and resets the image.

NOTE: Zoom in/out and brightness control work only while in the pause mode.

Search Mode

DX-PC For View supports two search modes: time-lapse mode and event mode. The time-lapse search mode searches for recorded data by time and then plays back images found within the time parameters. The event search mode searches for event log entries using specific conditions and plays back the images associated with those event entries. These two modes have different panel configurations and search methods.

NOTE: Using both search modes at the same time is NOT possible.

Time-Lapse Search

Click the 🚱 button on the Search View panel to enter the time-lapse search mode. Selecting a date from the calendar initiates the time-lapse search. The dates for which recorded images are available are enabled. When first entering the time-lapse search, the latest date with recorded images will be selected (highlighted) in the calendar. Click the 💩 (Reload) button to reload the date information. Recorded information available from the selected date will be displayed on the timetable. The recorded data are displayed by time and bar-shaped segments indicate there are recorded data during that time. Select a specific hour by clicking the mouse on the desired hour segment.

	7 0 A	3 B	H.	3ġ	à	₩ 44	□</th <th>$\triangleright \Vdash$</th> <th></th> <th></th> <th>— ×1.0 — ×2</th> <th>۰ ا</th> <th>D</th> <th>— ;</th> <th>* —</th> <th>7</th>	$\triangleright \Vdash$			— ×1.0 — ×2	۰ ا	D	— ;	* —	7
∞	<	2009	9 - 7		∕	▲ Q 00:28	20:00	21:00	22:00	23:00	00:00	01:00	2009/07 02:00	/10 03:00	04:00	.0!
2	SM	T W	/ T 2	F 3	S 4	1	CAM1									
-	56 1213	78 141				2	CAM2									
	19 20 26 27				25	3	CAM3									
						4	CAM4									~

The recorded data of each camera channel are displayed by time in one-minute segments and a red vertical line indicates the selected time that will be played back. The color of the bar indicates different types of recording: Yellow for Pre-event, Purple for Event, Red for Panic, and Blue for Time-lapse. If the DVR has more than one video segment in the same time range, each segment will be separated by a yellow vertical line.

To view an image from a specific time, click the 🚱 (Go To) button and set up the date and time to search.

Event Search

Q	Site	Event	Date/Time	^
Q.+	 RemoteSite1 	🕼 CAM9	08-30-2006 21:32:59	
Q.+	 RemoteSite1 	<i>ମ୍ଭ</i> ତ୍ତି CAM9	08-30-2006 21:32:56	
	 RemoteSite1 	🕄 CAM9	08-30-2006 21:32:50	
	 RemoteSite1 	🕄 CAM9	08-30-2006 21:32:46	
	 RemoteSite1 	🕄 CAM9	08-30-2006 21:32:43	
	 RemoteSite1 	🕄 CAM2	08-30-2006 21:32:39	
	 RemoteSite1 	🕄 CAM8	08-30-2006 21:32:37	-
		60 a 1946		

Click the \Re_{1} button on the Search View panel to enter the event search mode. First, click the \Im_{1} button, and set up the search condition in the following Event Search dialog box.

From :	VF	rst							* *		6:13	B PM		\$		
То :	√ La	ast			Ī				0		6:13	3 PM		4.9]	
	All	1	2	3	4	5 6	7	8	9	10	11	12	13 1.	4 15	16	Recorder Bad
Alarm-In:	v	~	~	4	~	•		v	v	~	~	~	~			Alarm-In Bad
Motion:	-	~	~	V	V				V		v	~	-	•		☑ Disk Bad
Object Detection:	v	~	>	>		•		2		•	~	•	•	•		Disk Temperature
Video Loss:	~	~	~	V	~	•				•	~	•	v v	•		1997 C
Video Blind:	-	~	•	V	•	•				•	•	v	-	-		Disk S.M.A.R.T.
Camera:	~	V	•	v	•					•	~	•	-	•		Panic Record
Text-In:	•	V	>	2	•					V	•	•	•			Disk Almost Full

From :	First	[8/22/2008	4.4	4:06:07 P	M 🗘		
To :	🗹 Last	[8/22/2008		4:06:07 P	M O		
	All 1 2	345	678	0.10	1 11 12 1	3 14 15 16		
Channels :								
Criticition -								
	Name	Comp.	Valu	e	Column	Line		
		~			0	0		
~		~			0	0		
 Image: Constraint of the second second								
~		~			0	0		
		~ ~			0	0		

NOTE: The Event Search dialog box will differ depending on the specifications of the remote DVR.

NOTE: The *Text-In* (Event Search – Text-In tab) search may not be supported, depending on the specifications and version of the remote DVR.

Set up the search criteria for the event search in the Event Search dialog box, and click the Find button. The results will be displayed in the event list. A total of 100 results can be displayed at a time. Click the (Query Next) button to display the next results. If you select an event in the list, the recorded data associated with that event will be displayed on the screen. The images may be played back using the playback buttons.

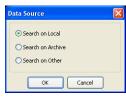
When searching video recorded on a PC-based DVR, you can adjust the event dwell time from 1 second to 10 minutes. If you adjust the event dwell time, DX-PC For View will display the images of first queried event and ignore remaining events occurring during the preset period.

NOTE: When *First* is selected for the search starting time, the search will be from the first recorded data. When *Last* is selected for the search ending time, the search will be to the last recorded data.

Additional Functions

Searching Data Source

Click the R button on the Search View panel to set up the data source to be searched.



- Search on Local: Searches recorded data on primary storage installed in the remote DVR.
- Search on Archive: Searches archived data on backup storage installed in the remote DVR (Not supported).
- Search on Other: Searches recorded or archived data on storage used for another DVR then installed in the selected remote DVR.

NOTE: The *Search on Other* option may not be supported, depending on the specifications and version of the remote DVR.

Screen Layout and Frame Layout



DX-PC For View provides multiple screen layout for playback. The available formats are single-screen, quad, 1+7, 3x3, 4x4, 5x5, 1+32, 6x6, 7x7 and 8x8 and full-screen. When in one of the multi-view formats, clicking the formation of the previous or next page. To view a specific image in the single-screen mode, move the cursor to that image and double click the left mouse button. To return to the previous screen mode from the single-screen mode, double click the left mouse button in the playback window.

Clicking 🗟 (Layout Load) will apply the selected frame layout to DX-PC For View, and clicking 🔚 (Layout Setup) allows you to set up the user-defined frame layout.

Image Processing



The Image Processing panel allows enhancing played back images using processing controls.

- Blurs the image.
- △ Sharpens the image.
- Equalizes the image.
- Reduces the alias effect that occurs when using the zoom function.
- Ø Reloads the original image.

Playing Recorded Audio

DX-PC For View will play audio when it is in the single-screen layout while playing back recorded video that has recorded audio. Audio playback can be On or Off by selecting **Enable Audio** from the menu displayed by clicking the right mouse button on the screen.

NOTE: Audio might be interrupted during playback because of network conditions and your PC's performance.

NOTE: Playing recorded audio may not be supported, depending on the specifications of the remote DVR.

Save

Clicking the n button on the Search View panel saves recorded video.

Save Type		
Save Type		
	Save As Self-Player	
	Save As Video	
	Cancel	

• Save As Self-Player...: Saves any video clip of recorded data as an executable file. Set up the save parameters in the following dialog box. Click the Start button, and select Save in. Enter a File name and then select Save as type (.exe) for the video you are saving. Then click the Save button.

Save As Self-Player								
From :	First	11-18-2008	^ >	10:43:18				
From:	L FIISU	11-10-2000	۷	10.45.10	¥			
To :	Last	11-18-2008	*	10:43:18	*			
	Save Password							
	✓ Don't ask about file limit							
	Include Text-In Data							
	All 1 2 3 4 5	67893	10 1	1 12 13 14 15 16				
Camera :								
Progress :								
			_					
					_			
	Start	Close	1					
)					

NOTE: When more than one video segment exists in the same time range due to time overlap, a segment selection dialog box will appear and ask you to select the video segment you want to save from the segment list. Refer to the user manual of the remote DVR for details on time overlap.

NOTE: When the data file reaches 2GB, you will be asked to continue saving by creating multiple files in 2GB units. If you do not want to be asked, select *Don't ask about file limit.*

NOTE: The Save As Self-Player dialog box will differ depending on the specifications of the remote DVR.

Save As Self-Player can be performed by using the solution on the Search View panel. Selecting the desired time on the timetable and clicking the button sets the starting date (From), and selecting another time and clicking the button again sets the ending time (To).

• Save As Video...: Saves any video clip of recorded data in an AVI (Audio Video Interleaved) file format. Set up the save parameters in the following dialog box. Click the Start button and then set the file name. Clicking the Save button starts saving video.

Save As Video			X
	First Last		 10:43:18 10:43:18
Camera:	All 1 2 3 4 5	67891	0 11 12 13 14 15 16
Codec Setup	Include Audio Data		
	Cinepak Codec by Radius		~
	640 × 480 (VGA)	V Anti-Alia:	
Keyframe: Quality:			120 🗘 Frames
Max File Size:	Limit File Size	Save Spl	2000 🗘 MBytes
Progress:	[
View Proceeding F	Trames	Start	Close

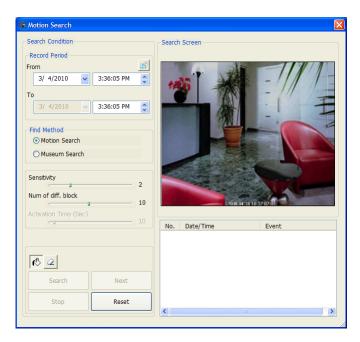
NOTE: Selecting *Include Audio Data* includes audio data when saving video with recorded audio. This option is not available when more than one camera is selected.

NOTE: When the data file reaches 2GB, saving stops. Selecting *Limit File Size* and adjusting the maximum file size causes saving to stop once the data file reaches the maximum file size setting. Selecting *Save Split File* saves video by creating multiple files in 2GB units or in the *Max File Size* units.

NOTE: Selecting *View Proceeding Frames* displays a popup screen showing the video currently being saved.

Motion Search

Click the 3/2 button on the Search View panel to search for motion in the recorded images on remote DVRs.



NOTE: Motion Search is supported only in the single-screen mode.

- Record Period: Sets up the record period of images to search.
- Find Method: Selects a search method.
 - Motion Search: Searches for images with changes in the Detection Area between two consecutive images (for example, when there was movement).
 - Museum Search: Searches for images with changes which last for the Activation Time in the Detection Area when compared to the image displayed currently on the Search Screen (for example, when an object disappears).
- Sensitivity: Sets the sensitivity of the change detection. The higher the number is, the more sensitive it is.
- Num of diff. block: Sets the minimum number of blocks that must be activated to be considered as a change (Motion Search only).
- Diff. % to ref. image: Sets the minimum proportion (%) of blocks that must be activated to be considered as a change (Museum Search only).
- Activation Time: Sets the duration that the change must last to be considered as a change (Museum Search only). If a change is detected but does not last as long as the Activation Time, the change is not considered as a change.
- 📧 🔟 (Detection Area Select/Clear): Sets the detection area on the Search Screen by selecting or clearing blocks.
- Search/Stop: Starts or stops searching. The last recorded image is displayed on the Search Screen.
- Next: Searching stops when the search results reach 100. Clicking the button continues searching.
- Reset: Resets the search condition.

4.3 Additional Functions

Save

Clicking the S button on the toolbar saves the image currently displayed on the screen as a bitmap or JPEG file. By placing a checkmark in the box beside **Include Image Info**, text information about the site will be included when saving the image.

Print

Clicking the Solution on the toolbar prints the image currently displayed on the screen on a printer connected to your computer. By placing a checkmark in the box beside **Include Image Info**, text information about the site will be included when printing the image.

Screen Menu

Selecting a camera on the Watch or Search screen and clicking the right mouse button display the popup menu.



- Change Camera Title: Changes the camera name displayed on the screen. Leaving the Camera Title blank causes the camera name set up on the remote site to display. Changing the camera title does not affect the camera name set up on the remote site.
- Enable Audio: Enables audio communication with the remote site on the Watch screen (Two-way audio equipped remote sites only). Plays audio while playing back recorded video that has recorded audio on the Search screen. Refer to 4.1 Live Monitoring and 4.2 Playback and Search for more details.
- Aspect Ratio: Changes the image aspect ratio displayed on each camera screen.
 - Fit to Screen: Displays images by fitting them to the screen size.
 - Original Ratio: Displays images by fitting them within the screen size while maintaining their original ratio.
 - Half Size (x0.5) to Quadruple Size (x4): Select the desired image size. Options are enabled when the selected camera screen can display images in that size.
- Set Record Camera: Sets the selected camera channel to be recorded during panic recording. Refer to 3.3 Menu System Menu for details on configuring camera channels for panic recording.
- Deinterlacing: Enhances image display quality of interlaced video on the screen by eliminating horizontal scan lines or noise in areas with motion.
- Anti-Aliasing Screen: Enhances image display quality for all cameras on the screen by eliminating stair-stepping (aliasing) effects in the enlarged image.
- Disconnect Camera: Disconnects a camera on the screen.

NOTE: When using a low-end computer, image drawing speed might decrease while using a deinterlace filter depending on the type of deinterlace filter.

NOTE: When using a low-end computer, image drawing speed might decrease when the *Anti-Aliasing Screen* option is selected.

4.4 Panic Recording

Clicking the \bullet button on the toolbar starts panic recording of cameras currently displayed on the Watch screen. Clicking the button again stops panic recording. Up to 16 channels can be recorded at a time, and you can select which cameras are to be recorded during the System setup. Clicking the \bullet button on the toolbar initiates the Record Player program and plays video saved in the recording folder designated during the System setup. The Record Player GUI and its controls are almost identical to the Clip Player. Refer to *Appendix A – Reviewing Video Clips, Clip Player*.

If you want to play back video saved in another recording folder, run the Record Player program first. Move to the Start menu in Windows. Then, select **RecordPlayer** from the DX-PC For View options and select the recoding folder path you want.

Recorded video can be saved as a bitmap or as an executable file using the save function of the Record Player.

NOTE: Panic recording will be available only if you select *Use Recording* and it is set up in the recording options during the System setup.

NOTE: The date and time displayed on the Record Player indicates when the recording was made on DX-PC For View.

NOTE: The **R** icon will display on each screen when panic recording starts.

NOTE: Audio recording is not supported.

4.5 Status View



DX-PC For View provides a status display, remote setup, system log and event log view of the connected remote site in real-time. To display a status of the remote site, select a camera or a site from the Remote Site list and drag it to the Status View panel. You can also select **Connect Status** from the popup menu displayed by clicking the right mouse button after selecting the site from the Remote Site list.

Function Buttons

Disconnect: Disconnects the current connection on the Status View panel.

NOTE: If you want to connect to another site, disconnect from the currently connected system on the Status View panel first by clicking the \blacksquare button.

Remote Setup: Allows changing the setup of the remote DVR connected to the Status View panel.

NOTE: Refer to the manual for each applicable remote DVR-for more details on system setup.

- Remote System Log: Displays the system log information of the remote DVR connected to the Status View panel.
- Remote Event Log: Displays the event log information of the remote DVR connected to the Status panel.

NOTE: Refer to 3.3 Menu – Remote Menu for more details on the Remote System Log and Remote Event Log.

NOTE: When the remote site is not connected to the Status View panel, Remote Setup, Remote System Log and Remote Event Log menus can be accessed by clicking the right mouse button after selecting the remote site on the Remote Sites panel.

Remote Panic Control: Controls the panic recording of the remote DVR connected to the Status View panel. The (On) button indicates that the remote DVR is not in the panic recording mode and you can start panic recording by clicking the button. The (Off) button indicates that the remote DVR is in the panic recording mode and you can stop panic recording by clicking the button.

NOTE: Remote Panic Control may not be supported, depending on the specifications and version of the remote DVR.

Status Display Window

The Status Display Window displays the event, alarm out, system check and recording status information of the remote system connected to the Status View panel in real-time.

NOTE: Depending on the specifications of the remote DVR, status display may not be supported.

- Event: Displays event (Motion Detection, Alarm In). The status display of event detection will continue during the preset dwell time of the event-driven recording.
 - 🚿 🚊 Event Detection
 - 🚿 📔 No Event Detection
 - 🕼 📮 Event Off
- Alarm Out: Displays status of the alarm-out signals.

-0	Alarm-Out	-0	No Alarm-Out	a	Alarm-Out Off				
• System Check: Displays the function status of the camera, alarm, and recording.									
₽₽	REC Normal	₽₿	Irregular		System Check Off				
Recore	d From/To: Displays th	e record p	eriod.						

🗩 🖾 🗟 🖶 Off

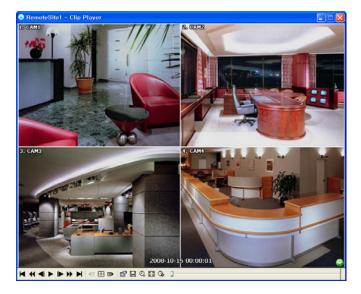
- Status: Displays the recording, playback, archiving, clip-copy status.
 - ▶ 2 🗄 On
- Version: Displays the system version information.

Appendix A – Reviewing Video Clips

You do not need to install any special software on you personal computer to review video saved as Self-Player files. The file contains a Player program. Double-clicking the target file starts the Player program.

NOTE: It is suggested that the computer used for the Clip Player program has at least an 800MHz Pentium III (Intel Pentium Dual Core 2.2GHz recommended). If your CPU is slower than this, video clips recorded at maximum speed with very high image quality will be played back slowly. Also DirectX 9.0 or higher is required to install, and the VGA card with 16MB or higher video RAM is recommended for proper operation.

NOTE: You will be asked to enter the password to initiate the Clip Player program if you select Save *Password* option when saving recorded video.



The ClipPlayer Screen displays the clip images.

NOTE: Proper image display depends on the display settings of your PC. If you are experiencing display problems, click the right mouse button on the background screen and select Properties \rightarrow Settings then set the *Color quality* to "32 *bit*". Then select Advanced \rightarrow Troubleshoot, and then set the *Hardware Acceleration* to "*Full*". Please make sure that DirectX version 9.0 or higher has been installed if the display problem continues. To check the version of DirectX, click Start \rightarrow RUN and type "dxdiag" then hit the enter key which will display DirectX Diagnostic Tool dialog box. Then move to the Display tab and make sure *DirectDraw Acceleration* is set to "*Enabled*". Test DirectDraw by selecting the *DirectDraw Test* button. Please check the driver version of the video card and update it to the latest version available. If you still have display problems after changing all display settings as described above, try replacing the video card. Video cards with an ATI chipset are recommended.

Clicking \boxtimes exits the Player program.

Click 🛛 to go to the beginning of the video clip.

Click **∢** to play the video clip in fast reverse.

- Click \blacktriangleright to play the video clip.

Click ▶ to go forward one frame of the video clip.

Click ▶ to play the video clip in fast forward.

Click \triangleright to go to the end of the video clip.

Click I to show the previous camera group if there is recorded video in the previous camera group in the current screen mode.

Click \boxplus to cycle through the screen layouts. It cycles through 2x2, 1+7, 3x3, 4x4, 4x5, 5x5 and 1+32.

NOTE: 4x5, 5x5 and 1+32 screen modes might not be supported depending on the number of saved camera channels.

Click \blacksquare to show the next camera group if there is recorded video in the next camera group in the current screen mode.

Click the 😭 icon to set up the Clip Player properties.

Print	• Print: Prints the current image.
Frame Info Image Processing Play Speed Control	 Frame Info.: Displays Channel, Title, Time, Type, Size and Resolution information about the image. Image Processing: Controls brightness, blur and sharpness of playback images. (Single-
Drawing Mode Screen Size Aspect Ratio OSD Setup	 Screen Layout and Pause Mode Only) Play Speed Control: Changes the playback speed (Play) or fast forward/backward playback speed (FF/RW).
	 Drawing Mode: Selects the draw mode level. If you are not sure about the best draw mode level for your system, try each level until the image displays properly. Screen Size: Changes the Clip Player screen size. Aspect Ratio: Changes the image aspect ratio displayed on each camera screen.
	 OSD Setup: Selects options to display on the screen. Enable Audio: Plays audio while playing back recorded video that has recorded audio. (Single-Screen Layout Only) Anti-Aliasing Screen: Enhances image display quality on the screen by smoothing stair-
	stepping (aliasing) effects in the enlarged image. If video plays slow because of your CPU's slow speed, releasing the Anti-Aliasing Screen option might improve playback speed.

• Show Text-In: Displays text-in data if the video was recorded with text-in data. In the single-screen layout, text-in data is displayed with images on the screen. In multi-screen layouts, click the right mouse button on a camera screen and then a text-in menu.

Click the \square icon to save clip images.

Save as Image Save as Image (Actual Size)	
Save as Clip-Copy Save as Video	
Clip-Copy Log	

- Save as Image: Saves the current image as a bitmap or JPEG file.
- Save as Image (Actual Size): Saves the current video frame as a bitmap or JPEG file in its actual size. (Single-Screen Layout Only)
- Save as Clip-Copy: Saves video of desired time range as an executable file.
- Save as Video: Saves video of desired time range as an AVI file.
- Clip-Copy Log: Saves the clip copy log information as a text file. The user information about Save As Clip Copy will be logged as "Internal-Copy".

Click the 🔁 icon to enlarge the image or display the image in its actual size (Single-Screen Layout Only). You can move the enlarged image by clicking the left mouse button and dragging.

Click the 🛐 icon to display the image full screen.

Click the 🔅 icon and set up the date and time of a saved image to view the image from the specific time.

Encryption icons display at the bottom-right corner. Solution displays when the clip file has not been tampered with, and solution with and solution displays and playback stops when the system has detected tampering.

NOTE: If the VGA card or monitor does not support 800x600 video resolution, *Full Screen* might not display properly. If this happens, press the ESC key on your PC keyboard to return to the normal screen mode.

Click the slider bar and move it left or right to move through the video clip.

Placing the mouse cursor on an image and clicking will cause that image to display full frame

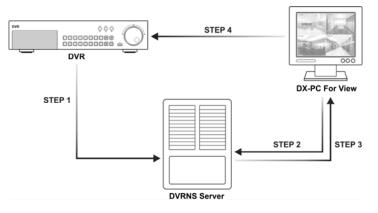
NOTE: Some options may not be available, depending on the specifications and version of the remote DVR.

Appendix B – DVR Name Service (DVRNS)

Overview

Using Static IP addresses in LAN/WAN networks requires high management overhead and increases the cost burden to users. Therefore, it has become essential for DVRs to support Dynamic IP addresses in ADSL/VDSL networks using DHCP (Dynamic Host Configuration Protocol). This reduces cost burdens and increases cost effectiveness for system users. Use the following steps to set up a system using DVRNS.

System Configuration



STEP 1 (DVR \rightarrow DVRNS Server): Register the unit name and IP address of the DVR during the DVRNS setup on the Remote DVR. This unit name and IP address will be registered on the DVRNS server directly.

NOTE: Refer to the applicable manual for each remote DVR for more details on DVRNS setup.

STEP 2 (DX-PC For View \rightarrow DVRNS Server): Request the IP address of the remote DVR using the registered unit name of the DVR you want to connect to.

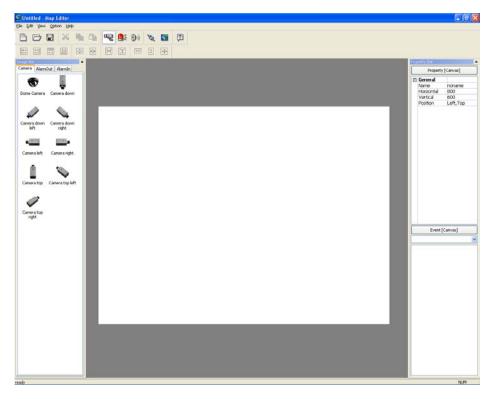
STEP 3 (DVRNS Server \rightarrow DX-PC For View): The DVRNS server notifies DX-PC For View of the requested IP address.

STEP 4 (DX-PC For View \rightarrow DVR): Connect to the target DVR using the IP address returned from the DVRNS server.

NOTE: You should follow steps 2 to 4 whenever connecting to the remote site because the DVR name and IP address might change at anytime.

Appendix C – Map Editor

The Map Editor program allows you to create maps of remote sites. With the drag-and-drop and link function, you can create and edit the map easily and efficiently. Run the program by selecting MapEditor from the DX-PC For View options under the Start menu in Windows.



Background Image Setting

First, prepare the image in a bitmap or JPEG file format. Click the \mathbb{N} (Background) button on the toolbar and select the background image of the map.

Go to the Property [Canvas] tab and set the background image information.

Property Bar		×	
Property [Canvas]			
Ξ	General		
	Name	noname	
	Horizontal	800	
	Vertical	600	
	Position	Left,Top	

- Name: Enter a name of the background image.
- Horizontal/Vertical: Adjust the background image size by clicking each field and changing the numbers.
- Position: Adjust the position of the background image on the screen. Select Auto Fit to fit the map screen size to the background image.

Option Menu

Click the **Option** menu to set up the remote site information, device status display and remote site name to display.

Option	Help
	Information Setting Ip Dwell Time
	us Color Setting e Table

Site Information Setting: Select the Site Information Setting... in the Option menu to set the information about the remote site connections, and the following Site Information setup window appears.



ite information		
Remote Site Setup		
Site Name:		<u>O</u> K
DVR Name:	Port	Cancel
	Use DVRNS	
Login Setup		
User ID:		
Password:		
Confirm password:		
	No password	
DVRNS Server		
IP address:	dvrnames.net	
	10088 (10000 ~ 12000, Default 10088)	

Click the Add button, and the following Site Item box appears.

 Remote Site Setup: Enter the site name and IP address of the DVR connected to the devices you want to include on the map. Click the Port... button and enter the network IP port number (8000 to 12000) that matches the value set during the LAN setup on the DVR. Check the box beside Use DVRNS to use the DVR name service.

NOTE: If you use DVR Name Service, you can enter the name registered on the DVRNS server instead of the IP address of the DVR, and you do not need to enter the network IP port number.

- Login Setup: Enter the user ID and password for the DVR associated with devices.
- DVRNS Server: Enter the IP address and port number (10000 to 12000) of the DVRNS server, which matches the values set during the DVRNS setup on the DVR.

Clicking the OK button saves the setting.

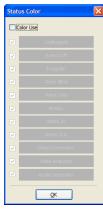
Popup Dwell Time: Select Popup Dwell Time... in the Option menu to set the duration of the Map popup screen displayed when events are detected, and the following Popup Dwell Time window appears.

Popup Dwell Time	
Use TimeOut	sec
✓ Display remaining time	
OK Cancel	

Check the box beside Use Timeout and adjust the time out dwell from 1 second to 5 minutes. Selecting Display remaining time displays the remaining time out dwell on the Map popup screen.

NOTE: *Popup Dwell Time* will be applied to all maps displayed on the map panel.

Status Color Setting: Select the Status Color Setting... in the Option menu and the following Status Color window appears. You can set the device to display a unique color reflecting its status on the Map panel.



Check the box beside Color Use and select each status box to use. Click each selected status box and select the desired color. When done, click the OK button.

- Unplugged: Either connection to the remote site has failed, or Device No. for the device is not supported by the remote site.
- Event off: Event detection function is not set up.
- Irregular: The device is not working properly.
- Video Blind/Video Loss/Motion/Object Detection/Video Analytics/Audio Detection: The event is detected.
- Alarm In: Alarm in is detected.
- Alarm Out: Alarm out is detected.

NOTE: Devices are displayed as *Irregular* based on the system check settings and as *Video Loss*, *Motion*, *Alarm In*, *and Alarm Out* based on the event detection settings on the remote DVR.

NOTE: The device displays mixed color when detecting more than two statuses at the same time.

Name Table: Select Name Table... in the Option menu to display the name instead of the IP address of the DVR on the Map panel, and the following Name Table setup window appears.

Name Table		
IP Address 10.0.12.170	Display Name	OK Cancel

Click the **Display Name** field of each IP address and enter the name of the DVR to display on the popup screen.

Device Setting

Selecting the \blacksquare , \blacksquare , or \blacksquare buttons on the toolbar displays the Camera, AlarmOut and AlarmIn tabs under the Image Bar. Select the icons, and drag and drop them at the desired locations on the background image.

Go to the Property [Camera/AlarmOut/AlarmIn] tab and set the device information.

Prop	berty Bar	>
Property [Camera]		
Ξ	General	
	Name	
	Description	
	Site Informati	Custom
	Image	Dome Camera
	Ratio	100%
	X Coordinate:	102
	Y Coordinate:	67
	Horizontal	39
	Vertical	39
Ξ	Equipment	
	User	
	Password	
	Camera No,	
	DVRNS Use	Yes
Ξ	DVRNS	
	Server Addre:	dvrnames, net
	Server Port	10088
	Name	

General

- Name: Enter a device name.
- Description: Enter description of the device.
- Site Information: Select a proper site for the device in the list, and the Equipment fields (User, Password, IP Address and Port) are filled automatically with the information set in Site Information Setting....
- Image: Select an image of a device.
- Ratio: Adjust the size of the device image.
- X Coordinates/Y Coordinates: Adjust the position of the device image by clicking each field and changing the numbers.
- Horizontal/Vertical: Adjust the size of the device image by clicking each field and changing the numbers.
- Popup camera: If the selected device is an alarm-in device, you can associate a camera with the sensor by entering the camera name. The camera name you enter should be the same as the camera name entered under the Property [Camera] tab. The Map panel pops up another screen and displays images of the camera associated with the sensor on the popup screen when an alarm-in event occurs.

Equipment

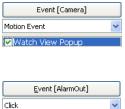
- IP Address/User/Password/Port: Each field is filled in automatically with the information (user ID, password, and port number) set in Site Information Setting..., or you can enter it manually.
- Device No.: Set the device number (1 ~ 32) for each device. If the selected device is a camera, Device No. changes to Camera No..
- DVRNS Use: Select Yes to use DVR Name Service, and the DVRNS field appears. Enter the IP address (or domain name) and the port number of the DVRNS server, and the name of the DVR registered on the DVRNS server.

NOTE: You should not select numbers that are not supported for devices on the remote DVR when selecting *Device No*. Otherwise, the map cannot detect the device and it displays the device status as *Unplugged*. For example, *Device No*. should be from 1 to 16 when the device is connected to a 16-channel DVR.

NOTE: If you set the IP address and port number of the DVRNS server in *Site Information Setting...*, the DVRNS fields are filled with the information automatically.

NOTE: The *DVRNS* function is supported only with the devices associated with a DVR providing the DVRNS (DVR Name Service) function.

Go to the Event [Camera/AlarmOut/AlarmIn] tab and set the option for the devices.



Event [AlarmIn]

- Event [Camera]: Selecting an event from a drop-down list and checking the Watch View Popup box set the Map panel to pop up another screen when an event occurs. Selecting Click from a drop-down list and checking the Watch View Popup box pops up another screen by clicking the mouse button on the camera icon on the Map panel regardless of event detection.
- Event [AlarmOut]: Checking the Switch on/off box controls the alarm-out remotely by clicking the alarm-out icon on Map panel.
 - Event [AlarmIn]: Selecting Alarm-in Event from a drop-down list and checking the Watch View Popup box sets the Map panel to pop up another screen when an alarm-in event occurs. Selecting Click from a drop-down list and checking the Watch View Popup box pops up another screen by clicking the mouse button on the alarm-in icon on the Map panel regardless of event detection.

NOTE: The popup camera should be associated with the alarm in device to use the popup function. Refer to the *Device Setting – General, Popup camera* section for the popup camera association.

Link Setting

Switch on/off

Alarm-in Event

Watch View Popup

Click the \mathbb{N} (Link) button on the toolbar and place it on the screen linked with a sub-map. Then the Link Map \mathbb{I} box appears. Select the individual link boxes by using the Ctrl key on the keyboard, and then adjust the size and position of the link box using a mouse, a keyboard or the icons shown below.

- Interval adjustment: Equalizes the distance between three or more selected boxes.
- ↔ ‡ +
- Size adjustment: Equalizes the size of two or more selected boxes. Clicking the arrow keys while holding the Shift key on the keyboard changes the size of the selected boxes.



+0+

• Position adjustment: Arranges two or more selected boxes towards one direction or towards the center. Clicking the arrow keys while holding the Ctrl key on a keyboard changes the position of selected boxes.



Cut, Copy, Paste: Cuts, copies or pastes the link box.

Go to the Property [Link] tab and set the properties of the selected link box.

Prop	berty Bar		×
	Property	[Link]	
Ξ	General		
	Name	Link Map	
	Image		
	Link Documer		
	Ratio	100%	
	X Coordinates	257	
	Y Coordinates	231	
	Horizontal	100	
	Vertical	26	
	Text Show	Yes	

- Name: Enter a name of the link box.
- Image: Double click the field and select an image to insert in the link box.
- Link Document: Double click the field and select a map to be linked with the link box.
- Ratio: Adjust the image size within the link box.
- X Coordinates/Y Coordinates: Adjust the position of the link box on the screen by clicking each field and changing the numbers.
- Horizontal/Vertical: Adjust the link box size by clicking each field and changing the numbers.
- Text Show: Select Yes to display the name of the link box on the selected image.

Clicking the \blacksquare (Save) button on the toolbar saves the map. You can monitor remote sites by using the map. Refer to 3.2 Panel – Map Panel section for details.